![DC3 Digital Forensics Challenge]

402 – IMAGE ANALYSIS

TEAM INFORMATION	
Team Name:	Cls∅-rcn
Results Email:	███████████████
Examination Time Frame:	to

INSTRUCTIONS

Description: Examiners must develop and document a methodology used to determine whether the images in the **402_Image_Analysis_Challenge2008** folder are real (digital image without modifications), digitally enhanced (real image that has been modified), computer generated (CG), or a composite image (containing both real and CG elements). You will be expected to identify the nature of each picture. Please tell what you believe is the nature of the picture (real, composite, enhanced, CG... etc.)

Points will be awarded for each successfully identified image provided you supply a detailed methodology of how you derived your conclusion. The more information you can provide the better. If you think something looks real (or fake) but can't develop an algorithm, just do your best to describe what it is you're seeing.

What kind of images are in the challenge?

I. Real unmodified digital images

II. Real images that have been modified in some way (airbrushed, redeye corrected, cropped, etc)

III. Composites (combo of several images). Elements of the image can be real, fake, or both)

IV. Computer Generated images

Total Weighted Points: 20 Total Points available per entry – Total 400 Points Available

1. **Answers** – Circle Real, Enhanced, CG, or composite below. *As a Forensic Challenge, consider that your answers will have to have enough detail for the Findings and Methodology of your examination to satisfy questioning in a court of law.*

2. **Methodology** – Provide a meticulously detailed explanation of your process. Be sure to include a step action that our reviewers can follow to reproduce your work for authenticity including tools and techniques.

INTERNAL REVIEWER USE ONLY	
Reviewer:	Points Awarded:
Date:	Review Period: to
Completed: ☐ Yes ☐ No ☐ Partial	

Question 402: Image Analysis

Based on JPEGsnoop 1.2.1 (beta 3), the following images have been altered:

beach_foot.jpg

  NOTE: Photoshop IRB detected

  NOTE: EXIF Software field recognized as from editor

  ASSESSMENT: Image is processed/edited

bearded_guy.jpg

  ASSESSMENT: Image is processed/edited

blue_eyes.jpg.jpg

  NOTE: Photoshop IRB detected

  NOTE: EXIF Software field recognized as from editor

  ASSESSMENT: Image is processed/edited

bride.jpg

  NOTE: Photoshop IRB detected

  NOTE: EXIF Software field recognized as from editor

  ASSESSMENT: Image is processed/edited

curtain_lady.jpg

  NOTE: Photoshop IRB detected

  NOTE: EXIF Software field recognized as from editor

  ASSESSMENT: Image is processed/edited

elder_lady.jpg

  ASSESSMENT: Image is processed/edited

girl.jpg.jpg

  NOTE: Photoshop IRB detected

  NOTE: EXIF Software field recognized as from editor

ASSESSMENT: Image is processed/edited

girl_with_glasses.jpg

NOTE: JFIF COMMENT field is known software

ASSESSMENT: Image is processed/edited

guy.jpg

ASSESSMENT: Image is processed/edited

lady_in_tshirt.jpg.jpeg

ASSESSMENT: Image is processed/edited

leonardo.jpg

ASSESSMENT: Image is processed/edited

sequin_girl.jpg

ASSESSMENT: Image is processed/edited

veiled_lady.jpg

NOTE: Photoshop IRB detected

NOTE: EXIF Software field recognized as from editor

ASSESSMENT: Image is processed/edited

Based on JPEGsnoop 1.2.1 (beta 3), the following images have not been altered:

brunette.jpg

ASSESSMENT: Image is original

tulips.jpg

ASSESSMENT: Image is original

The following images could not be determined:

board.jpg

ASSESSMENT: Uncertain if processed or original

eagle.jpg

ASSESSMENT: Uncertain if processed or original

keyboard.jpg

ASSESSMENT: Uncertain if processed or original

pensive.png

spoons.bmp